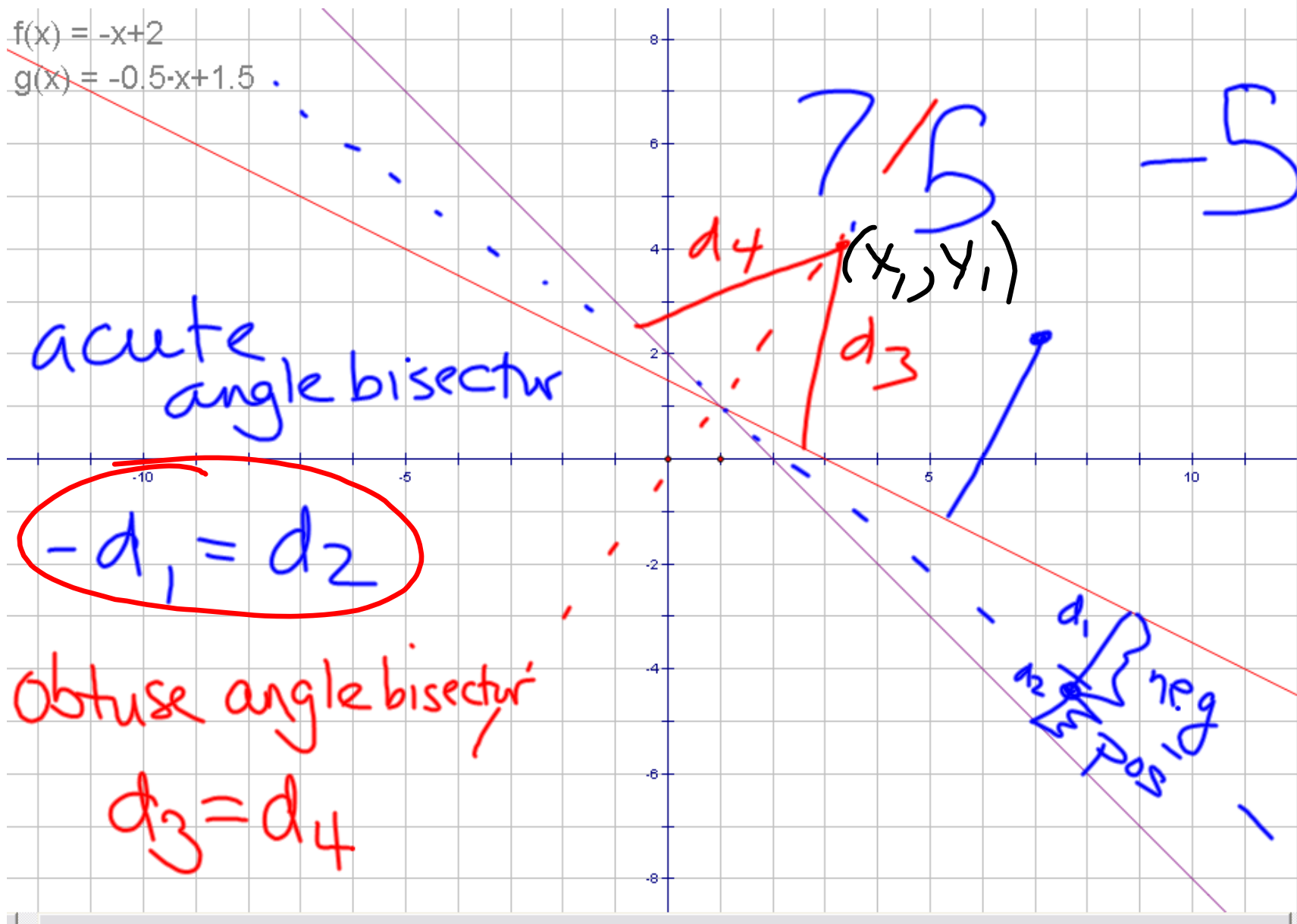
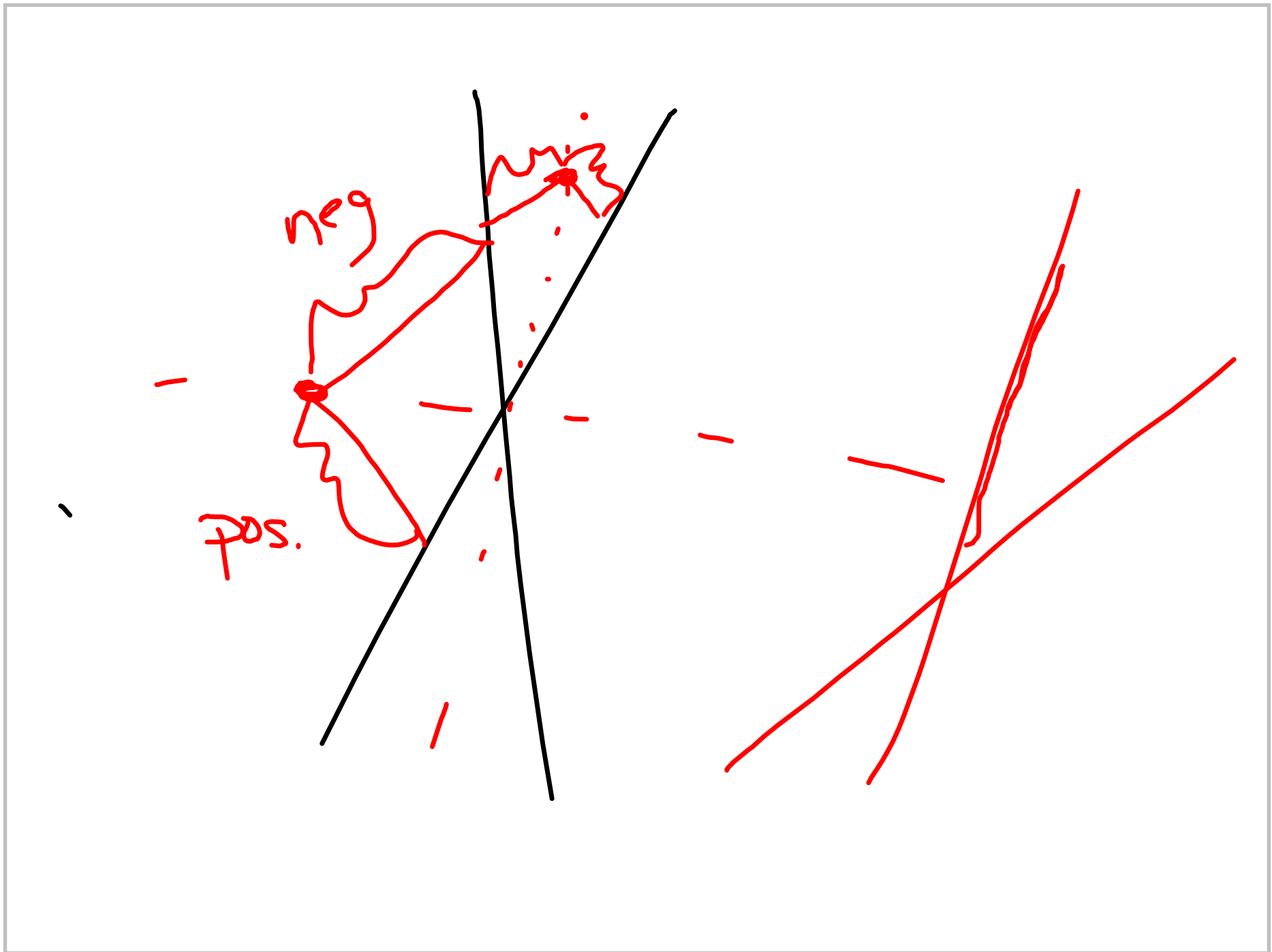


$$f(x) = -x + 2$$

$$g(x) = -0.5x + 1.5$$





$$x + y - 2 = 0 \quad x + 2y - 3 = 0$$

$$-d_1 = d_2 \quad (x_1, y_1)$$

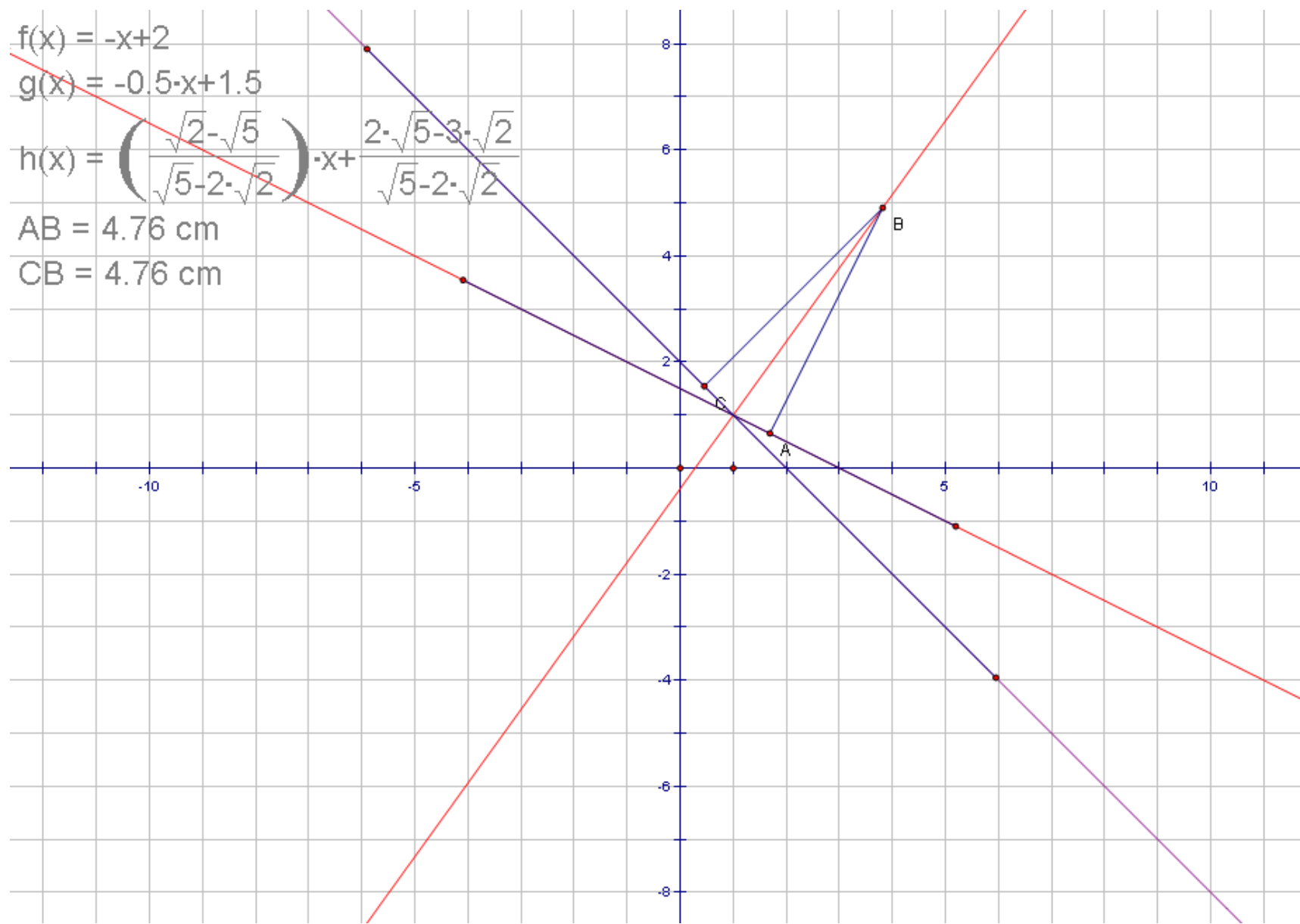
$$\frac{x_1 + y_1 - 2}{-\sqrt{2}} = \frac{x_1 + 2y_1 - 3}{\sqrt{5}}$$

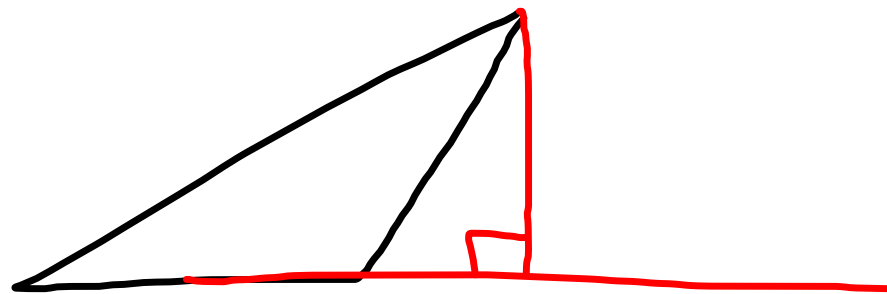
$$\sqrt{5}x_1 + \sqrt{5}y_1 - 2\sqrt{5} = \sqrt{2}x_1 + 2\sqrt{2}y_1 - 3\sqrt{2}$$

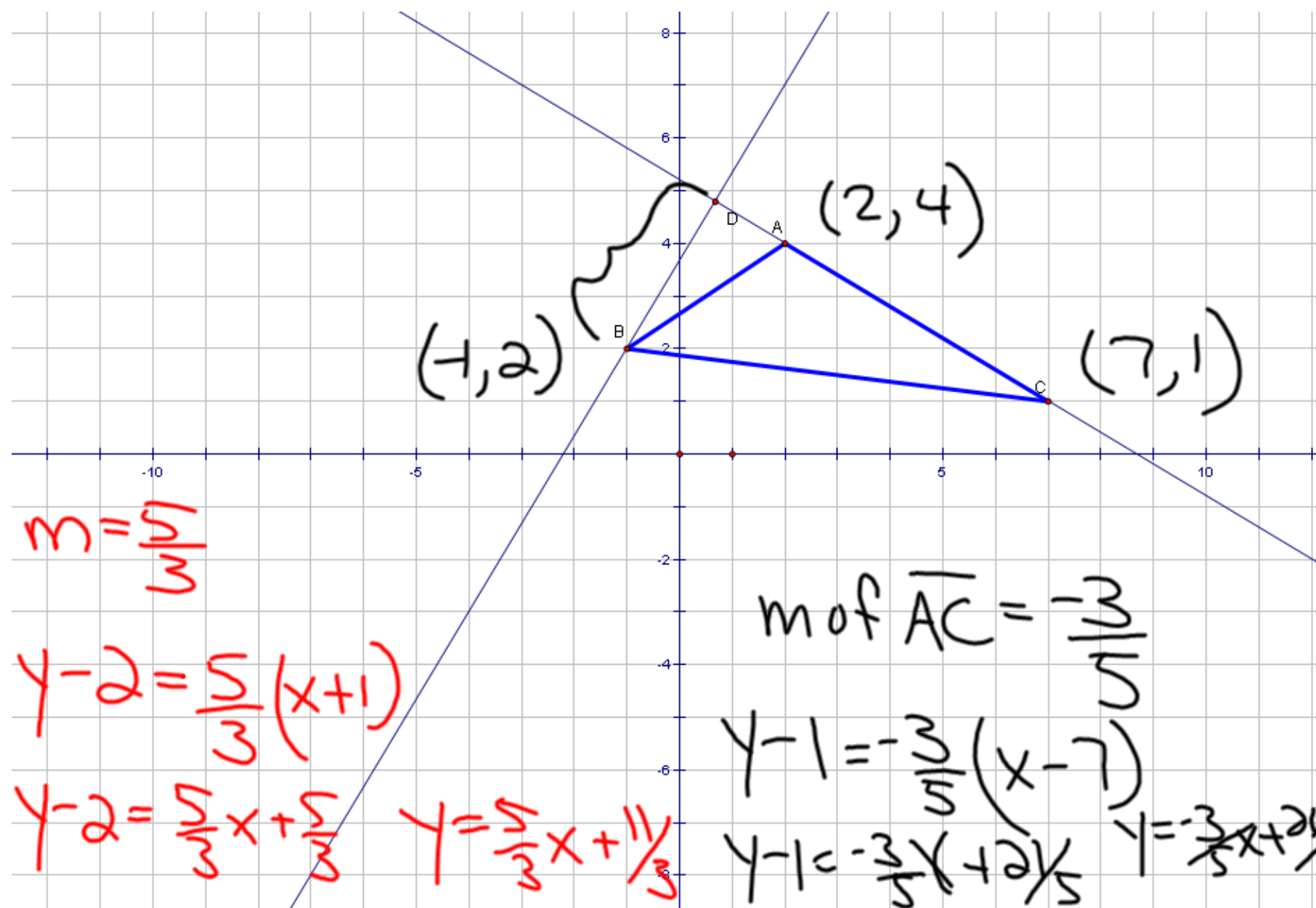
$$\sqrt{5}y_1 - 2\sqrt{2}y_1 = \sqrt{2}x_1 - \sqrt{5}x_1 - 3\sqrt{2} + 2\sqrt{5}$$

$$(\sqrt{5} - 2\sqrt{2})y_1 = (\sqrt{2} - \sqrt{5})x_1 - 3\sqrt{2} + 2\sqrt{5}$$

$$y_1 = \frac{(\sqrt{2} - \sqrt{5})}{(\sqrt{5} - 2\sqrt{2})} x_1 + \frac{(2\sqrt{5} - 3\sqrt{2})}{(\sqrt{5} - 2\sqrt{2})}$$







$$\boxed{y} = \frac{5}{3}x + \frac{11}{3}$$

$$\boxed{y} = -\frac{3}{5}x + \frac{26}{5}$$

$$\frac{5}{3}x + \frac{11}{3} = -\frac{3}{5}x + \frac{26}{5}$$

$$y = -\frac{3}{5} \cdot \frac{23}{34} + \frac{26}{5}$$

$$y = \frac{-69}{170} + \frac{884}{170}$$

$$y = \frac{815}{170}$$

$$\frac{5}{3}x + \frac{3}{5}x = \frac{26}{5} - \frac{11}{3}$$

$$\frac{25}{15}x + \frac{9}{15}x = \frac{78}{15} - \frac{55}{15}$$

$$\frac{18}{34} \cdot \frac{34}{15}x = \frac{23}{15} - \frac{18}{34}$$

$$x = \frac{23}{34}$$

$$\left(\frac{23}{34}, \frac{815}{170}\right)$$

$$B(-1, 2)$$

$$y = -\frac{3}{5}x + \frac{26}{5}$$

$$5y = -3x + 26$$

$$5y + 3x - 26 = 0$$

$$5y + \frac{3}{5}x - \frac{26}{5} = 0$$

$$5y + 3x - 26 = 0 \quad (-1, 2)$$

$$3x + 5y - 26 = 0$$

$$d = \frac{-3 + 10 - 26}{\sqrt{9 + 25}} = \frac{-19}{\sqrt{34}}$$

$$d = \frac{19}{\sqrt{34}} \quad b = \sqrt{34}$$

$$d = \frac{Ax + By + C}{\pm \sqrt{A^2 + B^2}}$$

$$A = \frac{1}{2}bh = \frac{1}{2} \cdot \frac{19}{\cancel{\sqrt{34}}} \cdot \cancel{\sqrt{34}} = 9.5$$

$$\left(\frac{23}{34}, \frac{815}{170}\right)$$

$$B(-1, 2)$$

$$d = \sqrt{\left(\frac{23}{34} + 1\right)^2 + \left(\frac{815}{170} - 2\right)^2}$$

$$d = \sqrt{\left(\frac{23}{34} + \frac{34}{34}\right)^2 + \left(\frac{815}{170} - \frac{340}{170}\right)^2}$$

$$d = \sqrt{\left(\frac{57}{34}\right)^2 + \left(\frac{475}{170}\right)^2}$$

$$d = \sqrt{\frac{3249}{1156} + \frac{225625}{28900}}$$

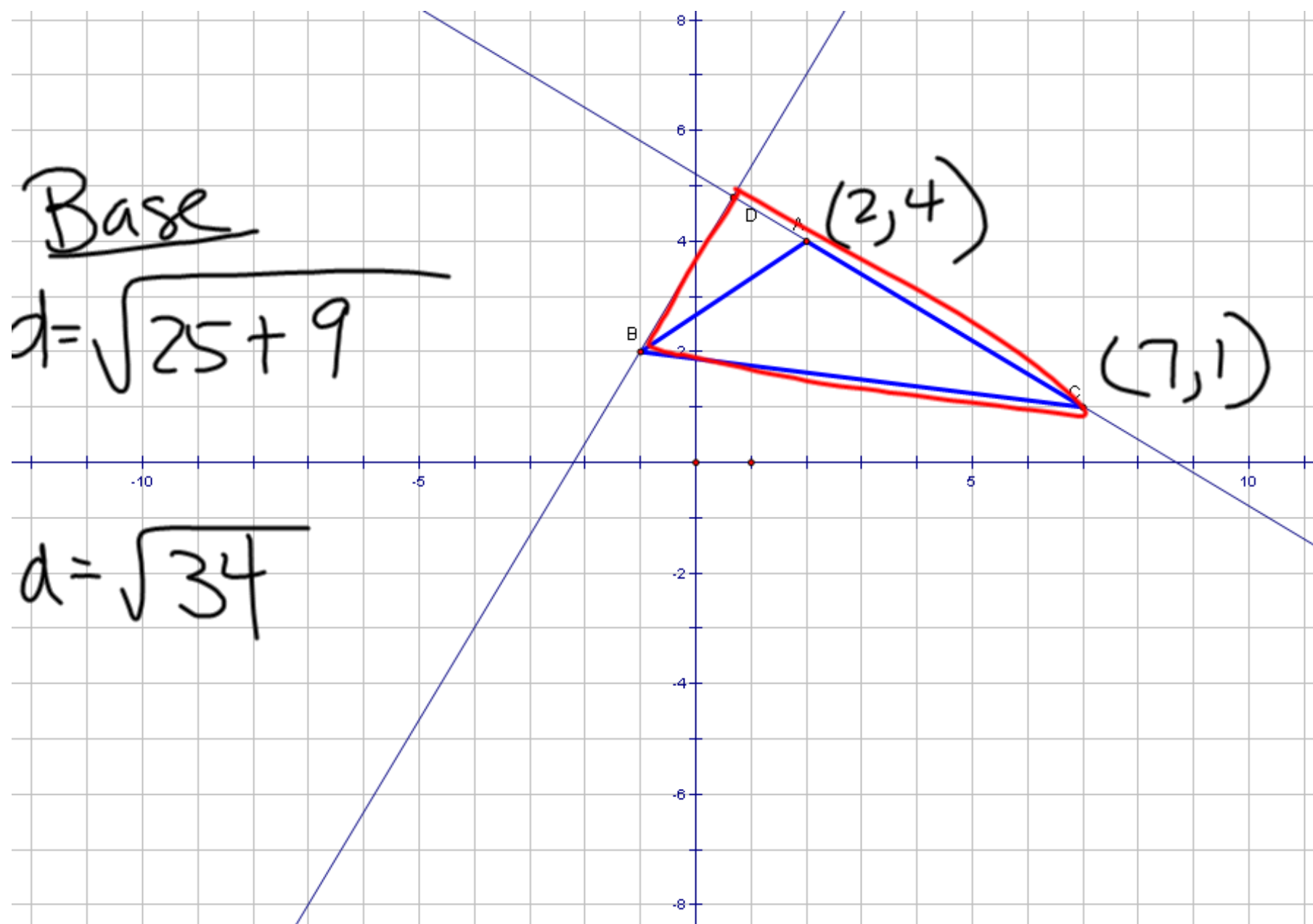
$$d = \sqrt{\quad}$$

$$d \approx 3.26$$

Base

$$d = \sqrt{25 + 9}$$

$$d = \sqrt{34}$$



$$\frac{\text{Base}}{\sqrt{34}}$$

$$\frac{\text{Altitude}}{\approx 3.26}$$

$$A = \frac{1}{2}bh = \frac{1}{2}\sqrt{34} \cdot 3.26$$

$$A \approx 9.5$$